

SEQUENCE LISTING

<110> LAWLOR, ELIZABETH JANE

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<140> TO BE ASSIGNED

<141> 2003-06-26

<150> 10/187,641.

<151> 2002-07-01

<150> 10/025,189

<151> 2001-12-19

<150> 09/432,692

<151> 1999-11-03

<150> 08/844,056

<151> 1997-04-18

<150> GB 9607999.1

<151> 1996-04-18

<160> 6

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 1998

<212> DNA

<213> *Streptococcus pneumoniae*

<220> unknown

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<223> Where n can be a, c, t, or g

<400> 1

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<210> 2

<211> 665

<212> PRT

<213> Streptococcus pneumoniae

<400> 2

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Glu	Leu	Trp	Gln	Leu	Leu	Asp	Ile	Ser	Tyr	Asp	Lys	Phe	Ile	Arg	Thr
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Val	Ser	Asp	Glu	Glu	Phe	Phe	Thr	Glu	Ser	Gln	Leu	Ala	Glu	Val	Phe
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Glu	Val	Glu	Trp	Val	Ser	Glu	Glu	Ser	Tyr	Phe	Leu	Arg	Leu	Ser	Lys
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Thr	Pro	Asp	Gly	Arg	Leu	Asn	Glu	Met	Leu	Arg	Asn	Phe	Ile	Glu	Pro
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Glu Met Leu Val Glu Arg Tyr Gly Leu Asp Pro Leu Arg Tyr Tyr Leu			
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Met Arg Asn Leu Pro Val Gly Ser Asp Gly Thr Phe Thr Pro Glu Asp			
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Tyr Val Gly Arg Ile Asn Tyr Glu Leu Ala Asn Asp Leu Gly Asn Leu			
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Leu Asn Arg Thr Val Ser Met Ile Asn Lys Tyr Phe Asp Gly Gln Ile			
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Pro Ala Tyr Val Glu Gly Val Thr Glu Phe Asp His Val Leu Ala Glu			
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Val Ala Glu Lys Ser Ile Ala Asp Phe His Thr His Met Glu Ala Val			
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Asp Tyr Pro Arg Ala Leu Glu Ala Val Trp Thr Leu Ile Ser Arg Thr			
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Asn Lys Tyr Ile Asp Glu Thr Ala Pro Trp Val Leu Asp Lys Asp Glu			
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Ala Leu Arg Asp Gln Leu Ala Ser Val Met Ser His Trp Gln Ala Ser			
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Ile Arg Val Val Ala His Leu Ile Glu Pro Phe Met Met Glu Thr Ser			
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Arg Ala Val Leu Thr Gln Ile Gly Leu Glu Glu Val Ser Ser Leu Glu			
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Asn Leu Ser Leu Ala Asp Phe Pro Ala Asp Val Thr Val Val Ala Lys			
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Gly Thr Pro Ile Phe Pro Arg Leu Asn Met Glu Glu Glu Ile Ala Tyr			
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Ile Lys Glu Gln Met Glu Gly Asn Lys Pro Ala Val Glu Lys Glu Trp			
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Asn Pro Asp Glu Val Glu Leu Lys Leu Asn Lys Asp Glu Ile Lys Phe			
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Glu Asp Phe Asp Lys Val Glu Ile Arg Val Ala Glu Val Lys Glu Val			
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Ser Lys Val Glu Gly Ser Asp Lys Leu Leu Gln Phe Arg Leu Asp Ala			
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Gly Asp Gly Glu Asp Arg Gln Ile Leu Ser Gly Ile Ala Lys Tyr Tyr			
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Pro Asn Glu Gln Glu Leu Val Gly Lys Lys Val Gln Ile Val Ala Asn
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<213> Streptococcus pneumoniae

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gaacaagaat tggtcggcaa gaaagttcaa atcgttgcta acctcaaacc acgtaaaatg 240
atgaaaaaat atgtcagcca gggatatgatt ctctcagctg aacatgatgg caaattaacc 300
cttctcacag ttgatccagc tgtaccaa at ggaagtgtga ttgggtaa 348

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<211> 115
<212> PRT
<213> Streptococcus pneumoniae

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35 40 45
Gln Ile Leu Ser Gly Ile Ala Lys Tyr Tyr Pro Asn Glu Gln Glu Leu
50 55 60
Val Gly Lys Lys Val Gln Ile Val Ala Asn Leu Lys Pro Arg Lys Met
65 70 75 80
Met Lys Lys Tyr Val Ser Gln Gly Met Ile Leu Ser Ala Glu His Asp

	85		90		95										
Gly	Lys	Leu	Thr	Leu	Leu	Thr	Val	Asp	Pro	Ala	Val	Pro	Asn	Gly	Ser
		100						105					110		
Val	Ile	Gly													
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 <213> Streptococcus pneumoniae

<400> 5
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<210> 6
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 <213> Streptococcus pneumoniae

<400> 6
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